

# FIG. 1

## NUCLEOTIDE AND AA SEQUENCE

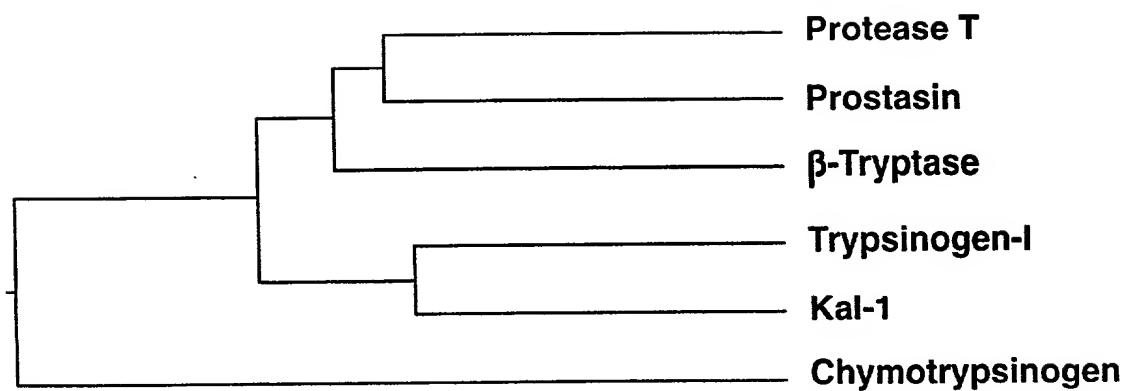
Nucleic acid sequence of Protease T (SEQ.ID.NO.:1)

GACCACGGCCCTGCGCCCCAGCCAGGCCTGAGGACATGAGGGGGGGGGGGGGTGGCCGC  
 TCCCTGCTGCTGTGTTGGGTCTCAGAGGGCCAAGGCAGCAACAGCCTGTGGTCGCC  
 CCAGGATGCTGAACCGAATGGTGGGGGGCAGGACACGCAGGAGGGCGAGTGGCCCTGGC  
 AAGTCAGCATCCAGCGAACCGAACCCACTCTGCGGGGGCAGCCTCATCGGGAGCAGT  
 GGGTCCTGACGGCTGCGACTGCTTCCGAAACACCTCTGAGACGTCCCTGTACCGAGTCC  
 TGCTGGGGCAAGGCAGCTAGTGCAGCCGGACACGCTATGTATGCCCGGGTGAGGC  
 AGGTGGAGAGCAACCCCTGTACCAAGGGCACGGCCTCCAGCGCTGACGTGGCCCTGGTGG  
 AGCTGGAGGCACCACTGCCCCCTACCAATTACATCCCTCCCGTGTGGCTGCCTGACCCCT  
 CGGTGATCTTGAGACGGCATGAACCTGCTGGGTCACTGGCTGGGGCAGCCCCAGTGAGG  
 AAGACCTCCCTGCCGAACCGGGATCCTGCAGAAACTCGCTGTGCCATCATCGACACAC  
 CCAAGTGCAACCTGCTCTACAGCAAAGACACCGAGTTGGCTACCAACCCAAAACCATCA  
 AGAATGACATGCTGCGCCGGCTTCGAGGAGGGCAAGAAGGATGCCTGCAAGGGCGACT  
 CGGGCGGCCCCCTGGTGTGCCTCGTGGTCAGTCGTGGCTGCAGGGGGGTGATCAGCT  
 GGGTGAGGGCTGTGCCCGCCAGAACCGCCCAGGTGTCTACATCCGTGTCACCGCCCACC  
 ACAACTGGATCCATCGGATCATCCCCAAACTGCAGTTCCAGCCAGCGAGGTTGGCGGCC  
 AGAAGTGAGACCCCCGGGCCAGGAGCCCCTTGAGCAGAGCTCTGCACCCAGCCTGCCG  
 CCCACACCATCCTGCTGGTCCTCCAGCGCTGCTGTGCAACCTGTGAGCCCCACCAACT  
 CATTGTAAATAGCGCTCCTCCCTCCCTCAAAATACCTTATTTATGTTCCTC  
 CCAATAAAACCCAGCCTGTGTGCCAGCTG

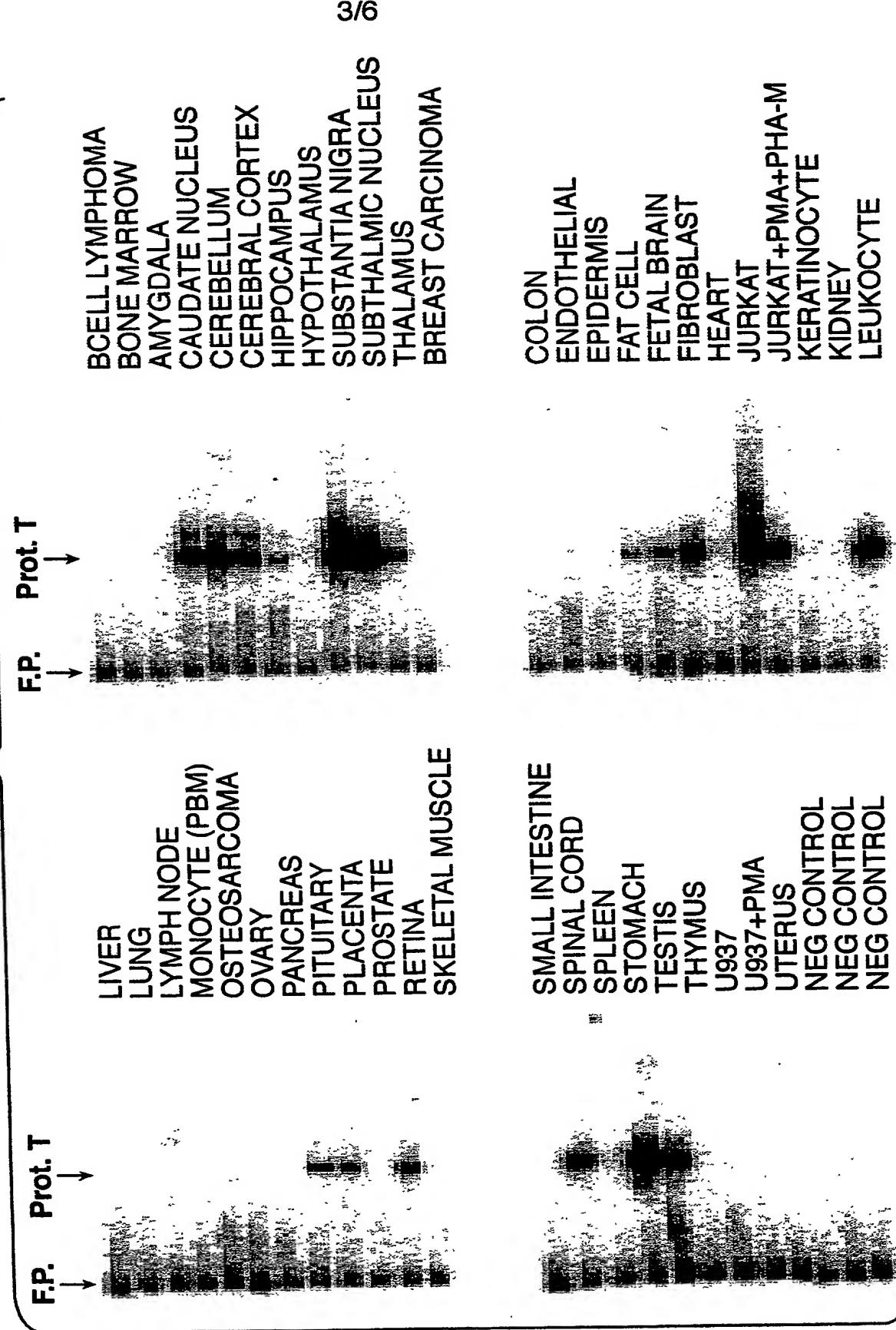
>Amino Acid Sequence of Protease T (SEQ.ID.NO.:7)

MRRPAAVPLLLLLCFGSQLAKAATACGRPRMLNRMVGGQDTQEGEWPWQVSIQRNGSHFC  
 GGSLIAEQWVLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAMYARVQVESNPLYQGTA  
 SSADVALVELEAPVPTNYILPVCLPDPSPVIFETGMNCWITGWGSPSEEDLLEPRILQK  
 LAVPIIDTPKCNLLYSKDTEFGYQPKTIKNDMLCAGFEEGKKDACKGDSGGPLVCLVGQS  
 WLQAGVISWGEKGARQNRPGVYIRVTAHHNWIHRIIPKLQFQPARLGGQK

## **FIG. 2**



# FIG. 3



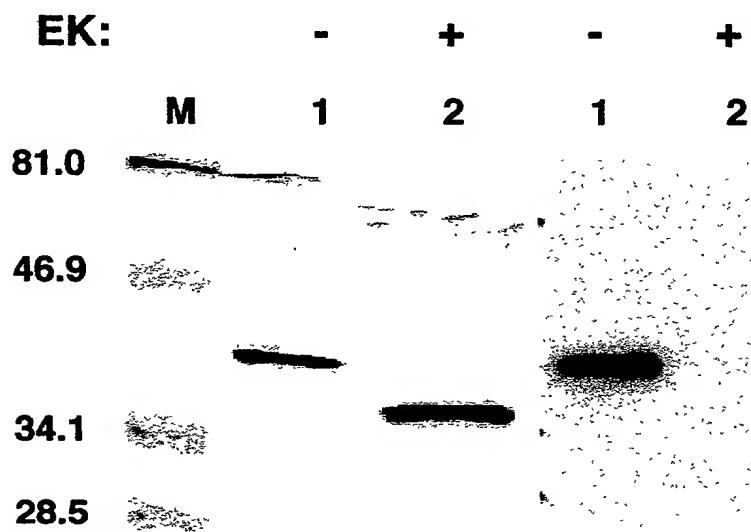
**FIG. 4****FUSION PROTEIN**

Nucleic Acid sequence of PFEK-PROTT-HIS fusion protein  
(SEQ.ID.NO.:8).

GAATTCAACCACCATGGACAGCAAAGGTTCGTCGCAGAAATCCCGCCTGCTCCTGCTGCTG  
GTGGTGTCAAATCTACTCTTGTGCCAGGGTGTGGCTCCGACTACAAGGACGACGACGAC  
GTGGACGCGGCCGCTCTTGCTGCCCTTGTGATGATGACAAGATCGTTGGGGCTAT  
GCTCTAGAGGAGGGCGAGTGGCCCTGGCAAGTCAGCATCCAGCGAACGGAAGCCACTTC  
TGCGGGGGCAGCCTCATCGCGGAGCAGTGGGCTCTGACGGCTGCGCAGTGCTTCCGCAAC  
ACCTCTGAGACGTCCCTGTACCAAGGTCTGCTGGGGCAAGGCAGCTAGTGCAGCCGGGA  
CCACACGCTATGTATGCCCGGGTGAGGCAGGTGGAGAGCAACCCCTGTACCAAGGGCACG  
GCCTCCAGCGCTGACGTGGCCCTGGTGGAGCTGGAGGCACCAAGTGCCCTTACCAATTAC  
ATCCTCCCCGTGTGCCCTGCCCTGACCCCTCGGTGATCTTGAGACGGCATGAACGTGCTGG  
GTCACTGGCTGGGCAGCCCCAGTGAGGAAGACCTCCTGCCCGAACCGCGGATCCTGCGAG  
AAACTCGCTGTGCCCATCATGACACACCCAACTGCAACCTGCTCTACAGCAAAGACACC  
GAGTTTGGCTACCAACCCAAAACCATCAAGAATGACATGCTGTGCCCGGCTTCGAGGAG  
GGCAAGAAGGATGCCCTGCAAGGGCGACTCGGGCGCCCTGGTGTGCCCTCGTGGGTCA  
TCGTGGCTGCAGGGGGGTGATCAGCTGGGTGAGGGCTGTGCCCGCCAGAACCGCCA  
GGTGTCTACATCCGTGTCACCGCCCACCAACTGGATCCATCGGATCATCCCCAAACTG  
CAGTTCCAGCCAGCGAGGTGGCGCCAGAAGTCTAGACATCACCACCACTCACTAG  
CGGGCGCTCCCTTAGTGAGGGTTAATGCTTCGAGCAGACATGATAAGATAACATTGATG  
AGTTTGGACAAACCACAACATAGAATGCAGTGAAAAAAATGCTTATTGTGAAATTGAC  
ATGCTATTGCTTATTGTAAACCATTATAAGCTGCAATAAACAAAGTTGAC

Amino Acid sequence of PFEK-PROTT-HIS fusion protein  
(SEQ.ID.NO.:9).

MDSKGSSQKSRLLLLLLVSNLLLCQGVVSDYKDDDDVDAAALAAPFDDDDKIVGGYALEE  
GEWPWQVSIQRNGSHFCGGSLIAEQWLTAACFRNTSETSLYQVLLGARQLVQPGPHAM  
YARVRQVESNPLYQGTASSADVALVELEAPVPFTNYILPVCLPDPSVIFETGMNCWVTGW  
GSPSEEDLILPEPRIQLQKLAVPIIDTPKCNLLYSKDTFEGYQPKTIKNDMLCAGFEEGK  
ACKGDGGPLVCLVGQSWLQAGVISWGEGLCARQNRPGVYIRVTAHHNWIHRIIPKLQFQP  
ARLGGQKSRRHHHHHH

**FIG. 5****Protease: PFEK-Protease T-HIS**

**FIG. 6****Protease Activity of Protease T**

□ H-D-Pro-HHT-Arg-pNA  
▨ H-D-Lys(CBO)-Pro-Arg-pNA  
▨ H-DL-Val-Leu-Arg-pNA

